SAND2024-09625PE



# FRMAC LABORATORY ANALYSIS WORKING GROUP UPDATE

# Lab Analysis Working Group Update



## Programmatic Improvements and Training Development

- **New iMatic unit for the Fly Away Lab**
  - Radon-compensated alpha/beta detector with automated sample changer (50 sample stack) with diameter <2 inches (smears and lo-vol filters)
- **Transportable Laboratory shelter for Fly Away Laboratory**
  - Purchase being worked out now, setup in FY26
- **FRMAC Lab Analysis Manual Vol. 1 Publication**

# Lab Analysis Working Group Update



## Drill Activities

- **RAP Regional Drills – Late summer 2025**
  - Participants: Sample Control Specialists
  - Exercise RAP/CM integration to operate a sample control hotline

# Lab Analysis Working Group Update



## Current Joint EPA/FRMAC FEMA-NIRT Projects

- **Pre-planned analytical strategies**
  - What to do about Sr-89/90?
  - Estimating MDAs for in-situ measurements for mission planning
  - How to verify resuspension factor and weathering factor assumptions with field measurements and samples
  - Estimating MDAs for handheld instruments
  - How to design a campaign to confirm no contamination is present
- **Future of NIRT is uncertain, future funding for Lab Analysis R&D is also uncertain**

# *Nuclear Incident Response Self-Paced Learning Opportunities*

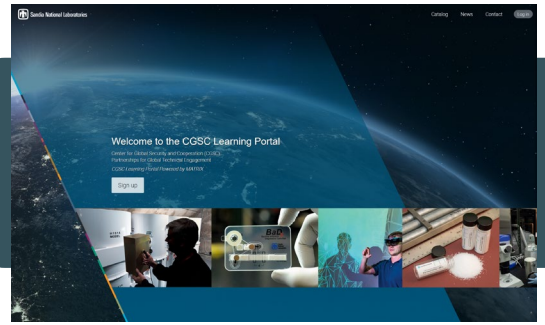
**AS-100: Introduction to Assessment Science**
24 ABHP CECs
- 22 module course covering FRMAC Assessment methods for public protection, worker protection, and ingestion pathway ***PNNS-KDXC***

**Turbo FRMAC Advanced Methods**
1 ABHP CEC each
- Administration of Potassium Iodide Derived Response Level Calculation ***OMXL-NMBV***
- Analytical Action Level Calculation ***HZAK-EWAX***

**LA-050: Support Laboratory Briefing**
- What labs should expect when called to help FRMAC ***CMOT-EKHS***

**LA-075: Laboratory Data Reporting (Sept 2025)**
- Detailed walkdown of data reporting in CBRNResponder

**Gamma Spectroscopy Fundamentals *ERXF-ZREQ***
- Detector Calibration Methods
- Sample Analysis
- Software Functions
- Mathematical Instrument Calibration
- True Coincidence Summing Corrections
- In-Situ Gamma Spectrometry




**Sandia and partners have developed *free, online* training!**
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**SAND2025-01090PE**